# EAST Search History

## EAST Search History (Prior Art)

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|---|---|---|---|---|---|---|
| S1 | 0 | adaptive adj antenna adj array same controller same mount$3 adj structure same position$3 adj structure | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/10/05 08:57 |
| S2 | 0 | adaptive adj antenna adj array same control$3 same mount$3 adj structure same position$3 adj structure | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/08/22 15:16 |
| S3 | 0 | adaptive adj antenna adj array same control$3 same mount$3 same position $3 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/08/22 15:17 |
| S4 | 0 | adaptive adj antenna adj array same control$3 and mount$3 adj structure same position$3 adj strucutre | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/08/22 15:18 |
| S5 | 7 | adaptive adj antenna adj array same control$3 and mount$3 same position$3 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/08/22 15:24 |
| S6 | 12 | adaptive adj antenna adj array and control$3 same mount$3 same position $3 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/08/22 15:32 |
| S7 | 0 | adaptive adj antenna adj array and controller same mount$3 same position $3 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/08/22 15:32 |
| S8 | 35 | adaptive adj antenna adj array same controller | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/08/22 15:33 |
| S9 | 0 | adaptive adj antenna adj array same controller and mounting adj structure and positioning adj structure | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/08/22 15:34 |
| S10 | 12418 | adaptive adj antenna adj array same controller and mount$3adj structure and position$3 adj structure | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/08/22 15:34 |
| S11 | 0 | (adaptive adj antenna adj array) same controller and mount$3 adj structure and position$3 adj structure | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/08/22 15:34 |
| S12 | 0 | (adaptive adj antenna adj array) same controller and mount$3 same position$3 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/08/22 15:35 |

| S13 | 0 | (adaptive adj antenna adj array) same controller and mount | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/08/22 15:35 |
|---|---|---|---|---|---|---|
| S14 | 35 | (adaptive adj antenna adj array) same controller | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/08/22 15:41 |
| S15 | 0 | (adaptive adj antenna adj array) same controller same (elevation or depression adj elevation) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/08/22 15:42 |
| S16 | 0 | (adaptive adj antenna adj array) same controller and postion$3 with (elevation or depression adj elevation) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/08/22 15:42 |
| S17 | 0 | (adaptive adj antenna adj array) same controller and position$3 with (elevation or depression adj elevation) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/08/22 15:42 |
| S18 | 7 | (adaptive adj antenna adj array) and controller and position$3 with (elevation or depression adj elevation) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/08/22 15:53 |
| S19 | 6 | (adaptive adj antenna adj array) and controller and position$3 with (elevation or depression adj elevation) and spatial adj diversity | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/08/22 15:54 |
| S20 | 8 | (adaptive adj antenna adj array) and controller and (elevation or depression adj elevation) and spatial adj diversity and base adj station | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/08/22 15:56 |
| S21 | 23 | (adaptive adj antenna adj array) and controller and (elevation or depression adj elevation) and base adj station | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/08/22 15:56 |
| S22 | 719 | (375/267).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/04 10:05 |
| S23 | 205 | (375/299).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/04 09:17 |
| S24 | 247 | (375/342).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/04 09:18 |
| S25 | 385 | (455/132).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/04 09:18 |

| S26 | 1062 | (455/562.1).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/04 09:18 |
|-----|------|-------------------|------|------|------|------|
| S27 | 562 | (455/101).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/04 09:18 |
| S28 | 92 | S22 and mimo and diversity | US-PGPUB | OR | ON | 2005/10/04 09:37 |
| S29 | 20 | S23 and mimo and diversity | US-PGPUB | OR | ON | 2005/10/04 09:38 |
| S30 | 0 | S24 and mimo and diversity | US-PGPUB | OR | ON | 2005/10/04 09:39 |
| S31 | 6 | S25 and mimo and diversity | US-PGPUB | OR | ON | 2005/10/04 09:39 |
| S32 | 31 | S26 and mimo and diversity | US-PGPUB | OR | ON | 2005/10/04 09:41 |
| S33 | 27 | S27 and mimo and diversity | US-PGPUB | OR | ON | 2005/10/04 09:46 |
| S34 | 40 | "375"/.clas. and mimo and diversity and spacing | US-PGPUB | OR | ON | 2005/10/04 09:51 |
| S35 | 24 | "455"/.clas. and mimo and diversity and spacing | US-PGPUB | OR | ON | 2005/10/04 09:56 |
| S36 | 204 | (370/334).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/04 09:56 |
| S37 | 489 | (343/725).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/04 09:56 |
| S38 | 0 | ("l15andmimoanddiversity").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/04 09:56 |
| S39 | 16 | S36 and mimo and diversity | US-PGPUB | OR | ON | 2005/10/04 09:58 |
| S40 | 0 | S37 and mimo and diversity | US-PGPUB | OR | ON | 2005/10/04 09:57 |
| S41 | 0 | S37 and mimo | US-PGPUB | OR | ON | 2005/10/04 09:57 |
| S42 | 174 | "370"/.clas. and mimo and diversity | US-PGPUB | OR | ON | 2005/10/04 10:00 |
| S43 | 0 | bocure.xa. and mimo | US-PGPUB | OR | ON | 2005/10/04 10:01 |
| S44 | 0 | bocure.xp. and mimo | US-PGPUB | OR | ON | 2005/10/04 10:02 |
| S45 | 0 | tesfaldet.xp. and mimo | US-PGPUB | OR | ON | 2005/10/04 10:02 |

| S46 | 0 | tesfaldet.xa. and mimo | US-PGPUB | OR | ON | 2005/10/04 10:02 |
|---|---|---|---|---|---|---|
| S47 | 0 | vo.xa. and mimo | US-PGPUB | OR | ON | 2005/10/04 10:02 |
| S48 | 0 | vo.xp. and mimo | US-PGPUB | OR | ON | 2005/10/04 10:02 |
| S49 | 2 | ("6128330").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/04 10:11 |
| S50 | 4 | multiple adj element same spatial adj diversity | US-PGPUB | OR | ON | 2005/10/04 11:18 |
| S51 | 2 | ("4816483").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/04 10:24 |
| S52 | 2 | ("6795424").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/04 10:24 |
| S53 | 2 | ("5933421").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/04 11:18 |
| S54 | 46 | multiple adj element and spatial adj diversity | US-PGPUB | OR | ON | 2005/10/04 12:01 |
| S55 | 2886 | array same mount | US-PGPUB | OR | ON | 2005/10/04 12:01 |
| S56 | 6085 | array same mounting | US-PGPUB | OR | ON | 2005/10/04 12:01 |
| S57 | 68 | antenna adj array same mounting | US-PGPUB | OR | ON | 2005/10/04 12:02 |
| S58 | 64 | antenna adj array same mount$3 same structure | US-PGPUB | OR | ON | 2005/10/04 12:03 |
| S59 | 35 | antenna adj array same mount$3 with structure | US-PGPUB | OR | ON | 2005/10/04 12:04 |
| S60 | 18 | antenna adj array same mount$3 with structure and position$3 with structure | US-PGPUB | OR | ON | 2005/10/04 12:07 |
| S61 | 35 | antenna adj array and mount$3 with structure same position$3 with structure | US-PGPUB | OR | ON | 2005/10/04 12:09 |
| S62 | 2 | antenna adj array with mounting adj bracket | US-PGPUB | OR | ON | 2005/10/04 12:09 |
| S63 | 2 | antenna adj array with mounting near2 bracket | US-PGPUB | OR | ON | 2005/10/04 12:10 |
| S64 | 106 | array with mounting near2 bracket | US-PGPUB | OR | ON | 2005/10/04 12:11 |
| S65 | 2 | antenna near3 array with mounting near2 bracket | US-PGPUB | OR | ON | 2005/10/04 12:11 |
| S66 | 1 | antenna near3 array with mounting near2 element | US-PGPUB | OR | ON | 2005/10/04 12:12 |
| S67 | 106 | antenna near3 array with install | US-PGPUB | OR | ON | 2005/10/04 12:17 |

| S68 | 2 | ("5,892,700").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/04 12:53 |
|---|---|---|---|---|---|---|
| S69 | 0 | (343/.clas.andadjust $5near2arraywithstructure).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/04 12:54 |
| S70 | 7 | "343"/.clas. and adjust$5 with array with structure | US-PGPUB | OR | ON | 2005/10/04 12:55 |
| S71 | 4 | "343"/.clas. and adjust$5 with array with elevation | US-PGPUB | OR | ON | 2005/10/04 12:56 |
| S72 | 9 | "343"/.clas. and mount$3 with array with elevation | US-PGPUB | OR | ON | 2005/10/04 12:57 |
| S73 | 23 | "343"/.clas. and mount$3 same array with elevat$4 | US-PGPUB | OR | ON | 2005/10/04 13:00 |
| S74 | 125 | "343"/.clas. and mount$3 same antenna with elevat$4 | US-PGPUB | OR | ON | 2005/10/04 13:01 |
| S75 | 414 | "343"/.clas. and antenna with elevat$4 | US-PGPUB | OR | ON | 2005/10/04 13:01 |
| S76 | 92 | "343"/.clas. and array with elevat$4 | US-PGPUB | OR | ON | 2005/10/04 13:06 |
| S77 | 12 | "343"/.clas. and array with bracket | US-PGPUB | OR | ON | 2005/10/04 13:07 |
| S78 | 24 | "343"/.clas. and array same bracket | US-PGPUB | OR | ON | 2005/10/04 13:08 |
| S79 | 450 | "343"/.clas. and array same structure | US-PGPUB | OR | ON | 2005/10/04 13:09 |
| S80 | 125 | (343/714).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/04 13:10 |
| S81 | 0 | ("l59andarray").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/04 13:10 |
| S82 | 0 | S80 and array | US-PGPUB | OR | ON | 2005/10/04 13:12 |
| S83 | 125 | (343/714).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/04 13:12 |
| S84 | 286 | (343/718).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/04 13:12 |
| S85 | 3 | S84 and array | US-PGPUB | OR | ON | 2005/10/04 13:13 |

| S86 | 550 | (343/720).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/04 13:14 |
| S87 | 1 | S86 and array | US-PGPUB | OR | ON | 2005/10/04 13:16 |
| S88 | 489 | (343/725).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/04 13:16 |
| S89 | 17 | S88 and array | US-PGPUB | OR | ON | 2005/10/04 13:22 |
| S90 | 378 | (343/880).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/04 13:23 |
| S91 | 3 | S90 and array | US-PGPUB | OR | ON | 2005/10/04 13:24 |
| S92 | 6 | S90 and elevation | US-PGPUB | OR | ON | 2005/10/04 13:26 |
| S93 | 18789 | array same align$5 | US-PGPUB | OR | ON | 2005/10/04 13:26 |
| S94 | 126 | antenna adj array same align$5 | US-PGPUB | OR | ON | 2005/10/04 13:26 |
| S95 | 45 | antenna adj array same align$5 and elevation | US-PGPUB | OR | ON | 2005/10/04 13:27 |
| S96 | 2 | antenna adj array same align$5 with height | US-PGPUB | OR | ON | 2005/10/04 13:28 |
| S97 | 4 | antenna adj array same align$5 same height | US-PGPUB | OR | ON | 2005/10/04 13:28 |
| S98 | 35 | antenna adj array same align$5 and height | US-PGPUB | OR | ON | 2005/10/04 13:30 |
| S99 | 6 | antenna adj array same align$5 with structure | US-PGPUB | OR | ON | 2005/10/04 13:31 |
| S100 | 656 | antenna adj array same (structure or bracket or mount$3) | US-PGPUB | OR | ON | 2005/10/04 14:33 |
| S101 | 1 | adaptive near3 array same demodulator same beamformer same combiner | US-PGPUB | OR | ON | 2005/10/04 14:35 |
| S102 | 3 | demodulator same beamformer same combiner and array | US-PGPUB | OR | ON | 2005/10/04 14:36 |
| S103 | 8 | demodulat$3 same beamform$3 same combiner and array | US-PGPUB | OR | ON | 2005/10/04 14:37 |
| S104 | 27 | demodulat$3 same beamform$3 same combin$3 and array | US-PGPUB | OR | ON | 2005/10/04 15:01 |
| S105 | 2 | ("3978482").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/04 15:02 |

| S106 | 2 | ("4931803").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/04 15:03 |
|---|---|---|---|---|---|---|
| S107 | 2 | ("5260968").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/04 16:14 |
| S108 | 2 | ("5345599").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/04 16:17 |
| S109 | 2 | ("5414433").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/04 16:17 |
| S110 | 2 | ("5566209").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/04 16:18 |
| S111 | 0 | (57/626978).APP. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/04 16:19 |
| S112 | 2 | ("5726978").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/04 16:33 |
| S113 | 2 | ("5784363").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/04 16:33 |
| S114 | 2 | ("5844951").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/04 16:35 |
| S115 | 2 | ("5983078").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/04 16:36 |
| S116 | 2 | ("6009130").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/04 16:37 |
| S117 | 2 | ("6075777").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/04 16:37 |

| S118 | 2 | ("6104930").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/04 16:39 |
|------|---|-----------------|-----------------------------------------------------|----|-----|-------------------|
| S119 | 2 | ("6122260").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/04 16:40 |
| S120 | 2 | ("6141335").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/04 16:50 |
| S121 | 45 | five near3 wavelength same spac$3 | US-PGPUB | OR | ON | 2005/10/04 16:53 |
| S122 | 5 | array same five near3 wavelength with spac$3 | US-PGPUB | OR | ON | 2005/10/04 16:54 |
| S123 | 1096 | array same wavelength with spac$3 | US-PGPUB | OR | ON | 2005/10/04 16:54 |
| S124 | 663 | array with wavelength with spac$3 | US-PGPUB | OR | ON | 2005/10/04 16:55 |
| S125 | 69 | array near3 wavelength near3 spac$3 | US-PGPUB | OR | ON | 2005/10/04 16:55 |
| S126 | 20 | antenna near3 array near3 wavelength near3 spac$3 | US-PGPUB | OR | ON | 2005/10/04 16:57 |
| S127 | 20 | array adj spac$3 near3 wavelength | US-PGPUB | OR | ON | 2005/10/04 16:58 |
| S128 | 7 | group adj spac$3 near3 wavelength | US-PGPUB | OR | ON | 2005/10/04 16:59 |
| S129 | 8352 | array near3 spac$3 five near3 wavelength | US-PGPUB | OR | ON | 2005/10/04 17:00 |
| S130 | 0 | "at least five wavelength" and array | US-PGPUB | OR | ON | 2005/10/04 17:01 |
| S131 | 67 | five adj wavelength and array | US-PGPUB | OR | ON | 2005/10/04 17:03 |
| S132 | 141 | wavelength same group near3 array | US-PGPUB | OR | ON | 2005/10/04 17:04 |
| S133 | 65 | wavelength near3 between near3 array | US-PGPUB | OR | ON | 2005/10/04 17:06 |
| S134 | 2 | wavelength near3 between near3 group near3 array | US-PGPUB | OR | ON | 2005/10/04 17:06 |
| S135 | 2 | ("5771024").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/05 13:34 |
| S136 | 2 | ("5784363").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/05 13:35 |

| S137 | 2 | ("5844951").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/05 13:35 |
|---|---|---|---|---|---|---|
| S138 | 2 | ("5983078").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/05 14:39 |
| S139 | 2 | ("3,978,482").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/05 14:39 |
| S140 | 2 | ("4,931,803").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/05 14:40 |
| S141 | 2 | ("5345599").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/05 14:40 |
| S142 | 2 | ("5566209").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/05 14:41 |
| S143 | 2 | ("6009130").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/05 14:41 |
| S144 | 2 | ("6104930").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/05 14:41 |
| S145 | 2 | ("6141335").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/05 14:42 |
| S146 | 2 | ("6144340").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/05 14:42 |
| S147 | 2 | ("6212175").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/05 15:41 |
| S148 | 2 | ("6,141,335").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/05 15:45 |

| S149 | 2 | ("6122260").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/05 15:46 |
|------|---|-----------------|------|----|-----|------|
| S150 | 2 | ("6104930").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/05 15:48 |
| S151 | 2 | ("6,075,777").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/05 15:54 |
| S152 | 2 | ("6809130").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/05 15:55 |
| S153 | 2 | ("6009130").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/05 15:56 |
| S154 | 2 | ("5983078").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/05 16:05 |
| S155 | 1249 | (370/329).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/06 08:25 |
| S156 | 370 | (370/330).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/06 08:25 |
| S157 | 450 | (370/395.4).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/06 08:26 |
| S158 | 166 | (370/436).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/06 08:26 |
| S159 | 371 | (370/437).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/06 08:26 |
| S160 | 5 | S155 and assign near2 channel with (SNR or energy or "C/I" or power or interference) | US-PGPUB | OR | ON | 2005/10/06 08:29 |

| S161 | 1 | S156 and assign near2 channel with (SNR or energy or "C/I" or power or interference) | US-PGPUB | OR | ON | 2005/10/06 08:29 |
|------|---|---|---|---|---|---|
| S162 | 0 | S157 and assign near2 channel with (SNR or energy or "C/I" or power or interference) | US-PGPUB | OR | ON | 2005/10/06 08:29 |
| S163 | 0 | S158 and assign near2 channel with (SNR or energy or "C/I" or power or interference) | US-PGPUB | OR | ON | 2005/10/06 08:29 |
| S164 | 1 | S159 and assign near2 channel with (SNR or energy or "C/I" or power or interference) | US-PGPUB | OR | ON | 2005/10/06 08:30 |
| S165 | 1063 | (assign$3 or allocat$3) near2 channel with (SNR or energy or "C/I" or power or interference) | US-PGPUB | OR | ON | 2005/10/06 08:30 |
| S166 | 410 | "370"/.clas. and (assign$3 or allocat$3) near2 channel with (SNR or energy or "C/I" or power or interference) | US-PGPUB | OR | ON | 2005/10/06 08:31 |
| S167 | 1 | ("5,835,061").PN. | US-PGPUB; EPO; DERWENT | OR | OFF | 2008/08/05 13:41 |
| S168 | 1 | ("6,950,403").PN. | US-PGPUB; EPO; DERWENT | OR | OFF | 2008/08/05 13:41 |
| S169 | 1 | ("6,239,719").PN. | US-PGPUB; EPO; DERWENT | OR | OFF | 2008/08/05 13:42 |
| S170 | 1 | ("6,950,403").PN. | US-PGPUB; EPO; DERWENT | OR | OFF | 2008/08/05 14:54 |
| S171 | 8 | hopkins.in. and (time near3 stamp).clm. | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2008/08/05 14:56 |
| S172 | 2 | ("5,345,599").PN. | US-PGPUB; USPAT; EPO; DERWENT | OR | OFF | 2009/02/09 10:25 |
| S173 | 2 | ("6,104,930").PN. | US-PGPUB; USPAT; EPO; DERWENT | OR | OFF | 2009/02/09 10:26 |
| S174 | 2 | ("5,933,421").PN. | US-PGPUB; USPAT; EPO; DERWENT | OR | OFF | 2009/02/09 10:26 |
| S175 | 2 | ("6,795,424").PN. | US-PGPUB; USPAT; EPO; DERWENT | OR | OFF | 2009/02/09 10:27 |
| S176 | 2 | weight same arrival near3 angle same spatial near3 filter | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2009/02/09 11:34 |
| S177 | 2 | weight same arriv$3 near3 angle same spatial near3 filter | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2009/02/09 11:40 |
| S178 | 7 | weight same arriv$3 near3 angle and spatial near3 filter | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2009/02/09 11:40 |
| S179 | 26 | weight same arriv$3 near3 angle and adaptive near3 filter | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2009/02/09 11:42 |
| S180 | 1 | weight same arriv$3 near3 angle same adaptive near3 filter | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2009/02/09 11:42 |

| S181 | 26 | weight same arriv$3 near3 angle and adaptive near3 filter | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2009/02/09 11:43 |
|------|-----|------|------|------|------|------|
| S182 | 2 | ("5,566,209").PN. | US-PGPUB; USPAT; EPO; DERWENT | OR | OFF | 2009/02/09 13:14 |
| S183 | 0 | minimiz$3 near3 signal near3 (strength or power or energy) same reduce near3 inter-bin near3 interference | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2009/02/09 13:46 |
| S184 | 0 | minimiz$3 near3 signal near3 (strength or power or energy) same (inter near3 (bin or frequency) near3 interference) | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2009/02/09 13:46 |
| S185 | 376 | (inter near3 (bin or frequency) near3 interference) | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2009/02/09 13:47 |
| S186 | 67 | (reduc$3 or minimiz$5) with (inter near3 (bin or frequency) near3 interference) | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2009/02/09 13:48 |
| S187 | 0 | assign$ near3 (frequency or bin) same (reduc$3 or minimiz$5) with (inter near3 (bin or frequency) near3 interference) | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2009/02/09 13:48 |
| S188 | 1 | assign$ with (frequency or bin) same (reduc$3 or minimiz$5) with (inter near3 (bin or frequency) near3 interference) | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2009/02/09 13:48 |
| S189 | 2 | select$ with (frequency or bin) same (reduc$3 or minimiz$5) with (inter near3 (bin or frequency) near3 interference) | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2009/02/09 13:49 |
| S190 | 2 | select$5 with (frequency or bin) same (reduc$3 or minimiz$5) with (inter near3 (bin or frequency) near3 interference) | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2009/02/09 13:50 |
| S191 | 1091182 | assign$3 (frequency near3 bit or tone) and (reduc$3 or minimiz$5) with (inter near3 (bin or frequency) near3 interference) | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2009/02/09 13:52 |
| S192 | 1091182 | assign$3 (frequency near3 bit or tone) and (reduc$3 or minimiz$5) with (inter near3 (bin or frequency) near3 interference) | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2009/02/09 13:52 |
| S193 | 0 | assign$3 near3 (frequency near3 bit or tone) and (reduc$3 or minimiz$5) with (inter near3 (bin or frequency) near3 interference) | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2009/02/09 13:53 |
| S194 | 0 | assign$3 with (frequency near3 bit or tone) and (reduc$3 or minimiz$5) with (inter near3 (bin or frequency) near3 interference) | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2009/02/09 13:53 |
| S195 | 18 | assign$3 with (frequency near3 bit or tone) and (inter near3 (bin or frequency) near3 interference) | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2009/02/09 13:53 |
| S196 | 30027 | assign$3 with (frequency near3 bit or tone) same mimimiz$3 inter$5 near3 interference | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2009/02/09 14:02 |
| S197 | 32 | (assign$3 near7 (frequency near3 bit or tone)) same (mimimiz$3 inter$5 near3 interference) | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2009/02/09 14:03 |

| S198 | 6 | (spacing near3 (frequency near3 bit or tone)) same (mimimiz$3 inter$5 near3 interference) | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2009/02/09 14:10 |
|---|---|---|---|---|---|---|
| S199 | 26 | ((spac$3 or distanc$3) near7 (frequency near3 bit or tone)) same (mimimiz$3 inter$5 near3 interference) | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2009/02/09 14:11 |
| S200 | 30 | ((spac$3 or distanc$3) with (frequency near3 bit or tone)) same (mimimiz$3 inter$5 near3 interference) | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2009/02/09 14:22 |
| S201 | 20093 | (assign$ or distribut$) near3 (frequenc $3 or tone of signal) with (energy or power or strength) | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2009/02/09 14:27 |
| S202 | 13284 | (assign$ or distribut$) near3 (frequenc $3 or tone of signal) near3 (energy or power or strength) | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2009/02/09 14:28 |
| S203 | 857 | "370"/.clas. and (assign$ or distribut$) near3 (frequenc$3 or tone of signal) near3 (energy or power or strength) | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2009/02/09 14:29 |
| S204 | 11490 | (distribut$ near3 (frequenc$3 or tone or signal)) near3 (energy or power or strength) | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2009/02/09 14:31 |
| S205 | 31 | (distribut$ near3 (frequenc$3 or tone or signal)) with (frequency near3 block) with (energy or power or strength) | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2009/02/09 14:32 |
| S206 | 2 | ("5,260,968").PN. | US-PGPUB; USPAT; EPO; DERWENT | OR | OFF | 2009/02/09 15:06 |
| S207 | 21 | maximum near3 element near3 (spac$3 or distance) and spatial near3 filtering | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2009/02/09 15:13 |
| S208 | 25 | maximum near3 element with (spac$3 or distance) and spatial near3 filtering | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2009/02/09 15:14 |
| S209 | 2287 | maximum near3 element with (spac$3 or distance) | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2009/02/09 15:15 |
| S210 | 73 | maximum near3 element near3 (spac$3 or distance) with array | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2009/02/09 15:15 |
| S211 | 1 | maximum near3 element near3 (spac$3 or distance) with (sub near3 array) | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2009/02/09 15:16 |
| S212 | 73 | maximum near3 element near3 (spac$3 or distance) with array | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2009/02/09 15:16 |
| S213 | 37 | maximum near3 element near3 (spac$3 or distance) with array and antenna near3 array | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2009/02/09 15:17 |
| S214 | 2 | maximum near3 element near3 (spac$3 or distance) with array and antenna near3 array and spatial near3 filter$3 | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2009/02/09 15:18 |
| S215 | 14 | maximum near3 element near3 (spac$3 or distance) with array and antenna near3 array and beamforming | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2009/02/09 15:18 |
| S216 | 37 | maximum near3 element near3 (spac$3 or distance) with array and antenna near3 array | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2009/02/09 15:19 |

| S217 | 3 | maximum near3 element near3 (spac$3 or distance) with subarray | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2009/02/09 15:20 |
|------|-----|------|------|-----|-----|------|
| S218 | 2 | maximum near3 (spac$3 or distance) near3 element with subarray | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2009/02/09 15:21 |
| S219 | 84 | maximum near3 (spac$3 or distance) near3 element with array | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2009/02/09 15:22 |
| S220 | 40 | maximum near3 (spac$3 or distance) near3 element with array and antenna near3 array | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2009/02/09 15:22 |
| S221 | 3 | ("3,978,482").PN. | US-PGPUB; USPAT; EPO; DERWENT | OR | OFF | 2009/02/09 15:41 |
| S222 | 45 | maximum near3 spacing near3 element with array | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2009/02/09 15:43 |
| S223 | 8 | maximum adj element adj spacing near7 array | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2009/02/09 15:44 |
| S224 | 1 | maximum adj element adj (spacing or distance) with spatial near3 diversity | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2009/02/09 16:37 |
| S225 | 1 | maximum near3 element near3(spacing or distance) with spatial near3 diversity | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2009/02/09 16:37 |
| S226 | 3 | maximum near3 element near3(spacing or distance) same spatial near3 diversity | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2009/02/09 16:37 |
| S227 | 3 | maximum near3 element near3 (spacing or distance) same spatial near3 diversity | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2009/02/09 16:37 |
| S228 | 23 | maximum near3 (spacing or distance) same spatial near3 diversity | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2009/02/09 16:38 |
| S229 | 24 | maximum near7 (spacing or distance) same spatial near3 diversity | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2009/02/09 16:39 |
| S230 | 26 | maximum with (spacing or distance) same spatial near3 diversity | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2009/02/09 16:40 |
| S231 | 504 | (spacing or distance) same spatial near3 diversity | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2009/02/09 16:41 |
| S232 | 5 | (spacing or distance) adj element same spatial near3 diversity | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2009/02/09 16:41 |
| S233 | 59 | (spacing or distance) near3 element same spatial near3 diversity | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2009/02/09 16:42 |
| S234 | 7 | minimum near3 (spacing or distance) near3 element same spatial near3 diversity | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2009/02/09 17:01 |
| S235 | 2 | ("5,933421").PN. | US-PGPUB; USPAT; EPO; DERWENT | OR | OFF | 2009/09/17 13:35 |

| S236 | 2 | ("5345300").PN. | US-PGPUB; USPAT; EPO; DERWENT | OR | OFF | 2009/09/17 13:35 |
| S237 | 2 | ("5345599").PN. | US-PGPUB; USPAT; EPO; DERWENT | OR | OFF | 2009/09/17 13:36 |
| S238 | 2 | ("5373300").PN. | US-PGPUB; USPAT; EPO; DERWENT | OR | OFF | 2009/09/17 13:36 |
| S239 | 2 | ("6115762").PN. | US-PGPUB; USPAT; EPO; DERWENT | OR | OFF | 2009/09/17 13:36 |
| S240 | 2 | ("5,260,968").PN. | US-PGPUB; USPAT; EPO; DERWENT | OR | OFF | 2010/06/01 08:47 |
| S241 | 2 | ("6795424").PN. | US-PGPUB; USPAT; EPO; DERWENT | OR | OFF | 2010/06/01 09:55 |
| S242 | 2 | ("5726978").PN. | US-PGPUB; USPAT; EPO; DERWENT | OR | OFF | 2010/06/01 09:56 |
| S243 | 2 | ("5771024").PN. | US-PGPUB; USPAT; EPO; DERWENT | OR | OFF | 2010/06/01 09:57 |
| S244 | 50 | beam near3 pattern same gain same co $1channel near3 interference | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2010/06/01 10:11 |
| S245 | 2 | ("6104930").PN. | US-PGPUB; USPAT; EPO; DERWENT | OR | OFF | 2010/06/01 10:59 |
| S246 | 2 | ("6091932").PN. | US-PGPUB; USPAT; EPO; DERWENT | OR | OFF | 2010/06/01 11:00 |
| S247 | 2 | ("5784363").PN. | US-PGPUB; USPAT; EPO; DERWENT | OR | OFF | 2010/06/01 12:24 |
| S248 | 2 | ("5844951").PN. | US-PGPUB; USPAT; EPO; DERWENT | OR | OFF | 2010/06/01 12:25 |
| S249 | 2 | ("5,345,599").PN. | US-PGPUB; USPAT; EPO; DERWENT | OR | OFF | 2010/06/01 13:18 |
| S250 | 9 | (direction or angle)with beam near3 pattern same gain same co$1channel near3 interference | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2010/06/01 13:21 |
| S251 | 9 | (direction or angle) with beam near3 pattern same gain same co$1channel near3 interference | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2010/06/01 13:21 |
| S252 | 2 | ("6,008,760").PN. | US-PGPUB; USPAT; EPO; DERWENT | OR | OFF | 2010/06/01 13:23 |
| S253 | 2 | ("5844951").PN. | US-PGPUB; USPAT; EPO; DERWENT | OR | OFF | 2010/06/01 15:33 |
| S254 | 2 | ("5933421").PN. | US-PGPUB; USPAT; EPO; DERWENT | OR | OFF | 2010/06/01 15:33 |

| S255 | 2 | ("5983078").PN. | US-PGPUB; USPAT; EPO; DERWENT | OR | OFF | 2010/06/01 15:34 |
|---|---|---|---|---|---|---|
| S256 | 2 | ("6075777").PN. | US-PGPUB; USPAT; EPO; DERWENT | OR | OFF | 2010/06/01 15:35 |
| S257 | 2 | ("6122260").PN. | US-PGPUB; USPAT; EPO; DERWENT | OR | OFF | 2010/06/01 15:36 |
| S258 | 2 | ("6148023").PN. | US-PGPUB; USPAT; EPO; DERWENT | OR | OFF | 2010/06/01 15:37 |
| S259 | 2 | ("6347234").PN. | US-PGPUB; USPAT; EPO; DERWENT | OR | OFF | 2010/06/01 15:38 |
| S260 | 2 | ("6466557").PN. | US-PGPUB; USPAT; EPO; DERWENT | OR | OFF | 2010/06/01 15:39 |
| S261 | 2 | ("6999772").PN. | US-PGPUB; USPAT; EPO; DERWENT | OR | OFF | 2010/06/01 15:40 |
| S262 | 3 | ("3,978,482").PN. | US-PGPUB; USPAT; EPO; DERWENT | OR | OFF | 2010/06/01 15:43 |
| S263 | 2 | ("4,931,803").PN. | US-PGPUB; USPAT; EPO; DERWENT | OR | OFF | 2010/06/01 15:44 |
| S264 | 2 | ("5,414,433").PN. | US-PGPUB; USPAT; EPO; DERWENT | OR | OFF | 2010/06/01 15:45 |
| S265 | 2 | ("5,566,209").PN. | US-PGPUB; USPAT; EPO; DERWENT | OR | OFF | 2010/06/01 15:55 |
| S266 | 2 | ("6009130").PN. | US-PGPUB; USPAT; EPO; DERWENT | OR | OFF | 2010/06/01 15:56 |
| S267 | 2 | ("6,104,930").PN. | US-PGPUB; USPAT; EPO; DERWENT | OR | OFF | 2010/06/01 16:01 |
| S268 | 2 | ("6,141,335").PN. | US-PGPUB; USPAT; EPO; DERWENT | OR | OFF | 2010/06/01 16:02 |
| S269 | 2 | ("6,212,175").PN. | US-PGPUB; USPAT; EPO; DERWENT | OR | OFF | 2010/06/01 16:03 |
| S270 | 2 | ("6,148,023").PN. | US-PGPUB; USPAT; EPO; DERWENT | OR | OFF | 2010/06/01 16:20 |

**1/5/11 2:02:59 PM**
**C:\ Documents and Settings\ RWilson1\ My Documents\ EAST\ workspaces\ 09975518.wsp**